Name_____

Graphing and Properties of Circles

Date_____ Period____

Identify the center and radius of each.

1) $x^2 + y^2 = 49$

2) $x^2 + y^2 = 324$

3) $(x + 2)^2 + (y - 3)^2 = 183$

4) $(x + 7)^2 + (y + 8)^2 = 64$

5) $(x + 10)^2 + (y + 9)^2 = 36$

6) $(x + 5)^2 + (y - 10)^2 = 9$

7) $x^2 + (y + 2)^2 = 121$

8) $(x - 14)^2 + (y - 2)^2 = 4$

9) $364 + 28y + y^2 + x^2 = -26x$

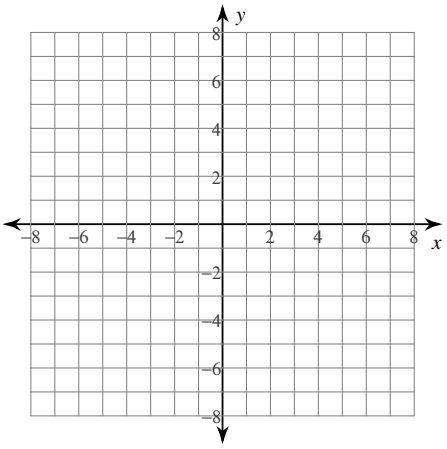
10) $x^2 + y^2 + 24x + 10y + 160 = 0$

11) $-6x = -x^2 + 32y - 264 - y^2$

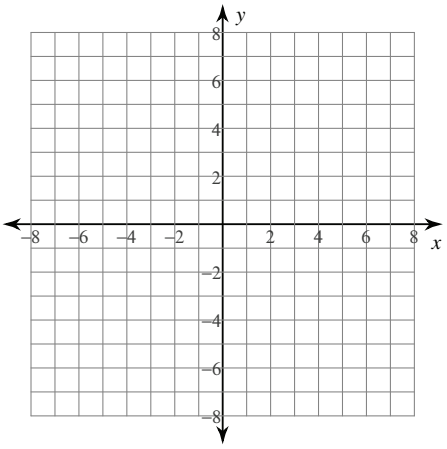
12) $-6x + x^2 = 97 + 10y - y^2$

Identify the center and radius of each. Then sketch the graph.

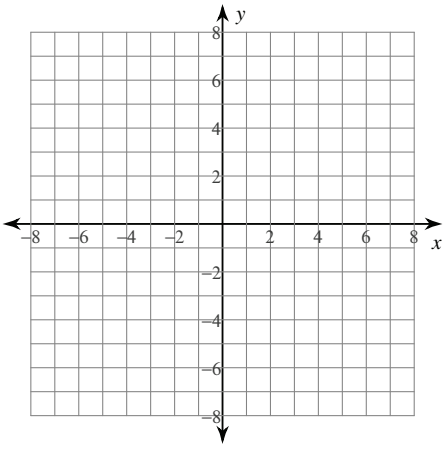
13) $(x+1)^2+(y-2)^2=9$



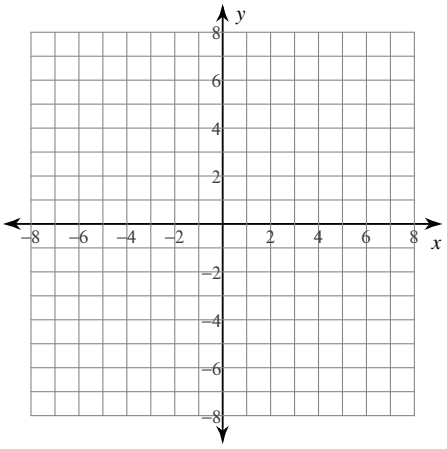
14) $(x+2)^2+(y+3)^2=4$



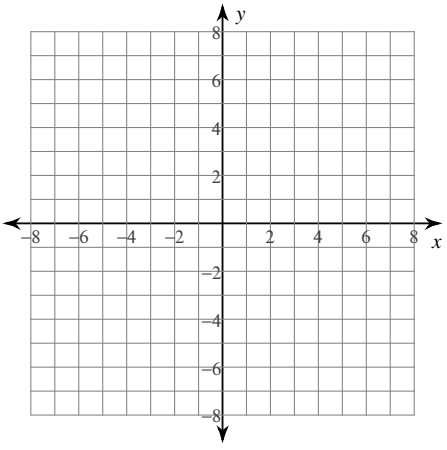
15) $(x+1)^2+(y+2)^2=25$



16) $(x+3)^2+(y-3)^2=8$



17) $(x+3)^2+(y+2)^2=9$



18) $\left(x+\frac{5}{2}\right)^2+\left(y-\sqrt{14}\right)^2=9$